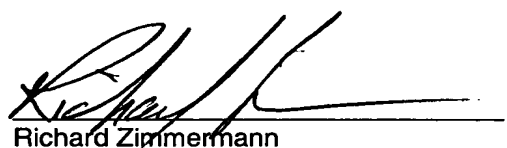


IN THE UNITED STATES PATENT
AND TRADEMARK OFFICE

Applicants: Werner Mäntele et al.)	I hereby certify that this paper is being
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Serial No.: To be assigned)	Service, on October 1, 2004 , in an
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Filed (I.A.): April 3, 2003)	Commissioner for Patents, PO Box 1450,
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AQUEOUS SYSTEMS)	EV 233439400 US.
PREFERABLY MULTIPLE)	
COMPONENT SYSTEMS)	
)	
Group Art Unit: To be assigned)	
)	
Examiner: To be assigned)	
)	
Attorney Docket No.: 30408/40489)	 Richard Zimmermann

INFORMATION DISCLOSURE STATEMENT

Mail Stop PCT
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Dear Sir:

Pursuant to 37 CFR §§ 1.56 and 1.97(b)(2), submitted herewith for consideration by the examiner is/are the document(s) identified on the accompanying Form PTO-1449 which may be considered material to the examination of the above-identified patent application. Copies of the cited U.S. patents and U.S. patent application publications are not enclosed pursuant to the Patent Office's waiver of the requirement to provide such documents under 37 C.F.R. § 1.98 for all U.S. national patent applications filed after June 30, 2003.

This information disclosure statement is being submitted within three months of the date of entry of the national stage (as set forth in 37 CFR § 1.491) in an international application. Accordingly no certification or fee is due.

It is respectfully requested that the information be expressly considered during the prosecution of the application, and that the documents be made of record therein and appear among those cited on the cover page of any patent issuing therefrom.

Werner Mäntele et al.
U.S. National Phase of PCT/EP03/03496
Page 2

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DT04 Rec'd PCT/PTO 0 1 OCT 2004

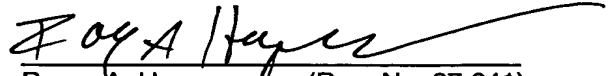
An early and favorable action on the merits is respectfully requested.

Respectfully submitted,

MARSHALL, GERSTEIN & BORUN LLP

October 1, 2004

By:



Roger A. Heppermann (Reg. No. 37,641)
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(312) 474-6300 Telephone

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Substitute for form 1449A/B/PTO				Complete if Known.	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Application Number	10/510017
				Filing Date (I.A.)	April 3, 2003
				First Named Inventor	Werner Mäntele
				Art Unit	
				Examiner Name	
Sheet	1	of	2	Attorney Docket Number	30408/40489

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
		US-4,636,474	01-13-1987	Ogura et al.	
		US-5,214,286	05-25-1993	Milosevic et al.	
		US-5,278,413	01-11-1994	Yamaguchi et al.	
		US-5,434,411	07-18-1995	Miyahara et al.	
		US-5,509,025	04-16-1996	Capasso et al.	
		US-5,922,609	07-13-1999	Kellner et al.	
		US-6,535,283	03-18-2003	Heffels et al.	
		US-6,584,335	06-24-2003	Haar et al.	
		US-2001/0025927	10-04-2001	Ankerhold	

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Translated Documents (or US/English Equivalent)
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)			
		DE-34 02 488	10-04-1984		US 4,636,474
		EP-0 206 433	12-30-1986		
		DE-3605518	08-27-1987		
		DE-42 00 869	07-23-1992		US 5,278,413
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		DE-198 56 591	06-21-2000		US 6,535,283
		DE-100 15 615	10-18-2001		US 2001/0025927

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Application Number	107510017
				Filing Date (I.A.)	April 3, 2003
				First Named Inventor	Werner Mäntele
				Art Unit	
				Examiner Name	
Sheet	2	of	2	Attorney Docket Number	30408/40489

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		LUBOS et al., "Quantum Cascade Lasers for Mid-Infrared Spectroscopy," <i>Vibrational Spectroscopy</i> , Sep. 18, 2002.	

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